

I CLAIM:

1. An antimicrobial nonwoven web having odor control properties, comprising:

a plurality of nonwoven fibers; and

a halogenated polystyrene hydantoin including a plurality of repeating units and halogen atoms chemically linked to the repeating units;

each of the repeating units including an amide nitrogen atom and an imide nitrogen atom;

wherein at least about 90% of the halogen atoms are chemically linked to the amide nitrogen atoms.

2. The antimicrobial nonwoven web of Claim 1, wherein at least about 95% of the halogen atoms are chemically linked to the amide nitrogen atoms.

3. The antimicrobial nonwoven web of Claim 1, wherein at least about 99% of the halogen atoms are chemically linked to the amide nitrogen atoms.

4. The antimicrobial nonwoven web of Claim 1, wherein about 100% of the halogen atoms are chemically linked to the amide nitrogen atoms.

5. The antimicrobial nonwoven web of Claim 1, wherein about 10-100% of the amide nitrogen atoms are chemically linked to halogen atoms.

6. The antimicrobial nonwoven web of Claim 1, wherein about 50-100% of the amide nitrogen atoms are chemically linked to halogen atoms.

7. The antimicrobial nonwoven web of Claim 1, wherein about 75-100% of the amide nitrogen atoms are chemically linked to halogen atoms.

8. The antimicrobial nonwoven web of Claim 1, wherein the nonwoven fibers comprise absorbent fibers.

9. The antimicrobial nonwoven web of Claim 1, further comprising a superabsorbent material.

10. The antimicrobial nonwoven web of Claim 1, wherein the nonwoven web comprises nonabsorbent fibers.

11. A personal care absorbent article comprising the antimicrobial nonwoven web of Claim 1.

12. A medical absorbent article comprising the antimicrobial nonwoven web of Claim 1.

13. An antimicrobial absorbent nonwoven web having odor control properties, comprising:

a plurality of absorbent nonwoven fibers; and

about 0.1-10% by weight of a chlorinated polystyrene hydantoin including a plurality of repeating units and chlorine atoms chemically linked to the repeating units;

each of the repeating units including an amide nitrogen atom and an imide nitrogen atom;

wherein at least about 90% of the chlorine atoms are chemically linked to the amide nitrogen atoms.

14. The antimicrobial absorbent nonwoven web of Claim 13, comprising about 0.5-5% by weight of the chlorinated polystyrene hydantoin.

15. The antimicrobial absorbent nonwoven web of Claim 13, comprising about 1-3% by weight of the chlorinated polystyrene hydantoin.

16. The antimicrobial absorbent nonwoven web of Claim 13, wherein at least about 95% of the chlorine atoms are chemically linked to the amide nitrogen atoms.

17. The antimicrobial absorbent nonwoven web of Claim 13, wherein at least about 99% of the chlorine atoms are chemically linked to the amide nitrogen atoms.

18. The antimicrobial absorbent nonwoven web of Claim 13, wherein about 100% of the chlorine atoms are chemically linked to the amide nitrogen atoms.

19. The antimicrobial absorbent nonwoven web of Claim 13, wherein the absorbent nonwoven fibers comprise cellulose fibers.

20. The antimicrobial absorbent nonwoven web of Claim 13, further comprising a superabsorbent material.

21. A personal care absorbent article comprising the antimicrobial absorbent nonwoven web of Claim 13.

22. A medical absorbent article comprising the antimicrobial absorbent nonwoven web of Claim 13.

23. An antimicrobial nonabsorbent nonwoven web having odor control properties, comprising:

a plurality of non-retentive nonwoven fibers; and

about 0.1-10% by weight of a chlorinated polystyrene hydantoin including a plurality of repeating units and chlorine atoms chemically linked to the repeating units;

each of the repeating units including an amide nitrogen atom and an imide nitrogen atom;

wherein at least about 90% of the chlorine atoms are chemically linked to the amide nitrogen atoms.

24. The antimicrobial non-retentive nonwoven web of Claim 23, comprising about 0.5-5% by weight of the chlorinated polystyrene hydantoin.

25. The antimicrobial non-retentive nonwoven web of Claim 23, comprising about 1-3% by weight of the chlorinated polystyrene hydantoin.

26. The antimicrobial non-retentive nonwoven web of Claim 23, wherein the nonwoven fibers comprise spunbond fibers.

27. The antimicrobial non-retentive nonwoven web of Claim 23, wherein the nonwoven fibers comprise meltblown fibers.

28. The antimicrobial non-retentive nonwoven web of Claim 23, wherein the nonwoven fibers comprise bonded carded fibers.

29. The antimicrobial non-retentive nonwoven web of Claim 23, wherein the nonwoven fibers comprise air laid fibers.

30. A personal care absorbent article comprising the antimicrobial non-retentive nonwoven web of Claim 23.

31. A medical absorbent article comprising the antimicrobial non-retentive nonwoven web of Claim 23.

32. An industrial wipe comprising the antimicrobial nonwoven web of Claim 1.

33. A food wipe comprising the antimicrobial nonwoven web of Claim 1.

34. An industrial wipe comprising the antimicrobial absorbent nonwoven web of Claim 13.

35. A food wipe comprising the antimicrobial absorbent nonwoven web of Claim 13.

36. An industrial wipe comprising the antimicrobial non-retentive nonwoven web of Claim 23.

37. A food wipe comprising the antimicrobial non-retentive nonwoven web of Claim 23.